

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

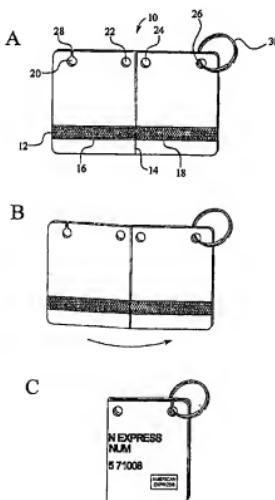
(10) International Publication Number
WO 2004/052657 A2

(51) International Patent Classification⁷: B42D 15/00
(52) Inventors; and
(53) International Application Number: PCT/US2003/039367
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(55) International Filing Date: 10 December 2003 (10.12.2003)
(56) Filing Language: English
(57) Publication Language: English
(58) Agent: SCHERRER, Stephen, T; McDermott, Will & Emery, 227 West Monroe Street, Chicago, IL 60606 (US).
(59) Priority Data:
60/432,726 11 December 2002 (11.12.2002) US
60/442,991 28 January 2003 (28.01.2003) US
10/436,394 12 May 2003 (12.05.2003) US
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(61) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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(54) Title: FOLDABLE TRANSACTION CARD SYSTEMS



(57) Abstract: Transaction cards having one or more holes therein to provide compact and easily stored transaction cards are provided. Moreover, foldable transaction cards are provided having one or more holes or apertures therein for holding key chains, or other devices for attaching the transaction cards to other items, such as sets of keys, wallets, or other items. Other embodiments include spring-loaded clips on the foldable transaction cards and protective sleeves, housings or cases for full-sized and smaller-sized cards. Still further, transaction card systems are provided comprising a case or housing for holding and/or storing foldable transaction cards therein.

WO 2004/052657 A2



(84) **Designated States (regional):** ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

FOLDABLE TRANSACTION CARD SYSTEMS

5 Field of the Invention

Transaction cards are provided having one or more fold lines therein to provide compact and easily stored transaction cards. Moreover, foldable transaction cards are provided having one or more holes or apertures therein for holding key chains, or other devices for attaching the transaction cards to other items, such as sets 10 of keys, wallets, or other items. In addition, transaction card systems are provided, each comprising a foldable transaction card and a case or housing for holding and/or storing the foldable transaction card therein.

Background

It is generally known to provide transaction cards for providing a means for 15 purchasing goods or services without the use of paper money or coinage. Specifically, transaction cards may represent credit, whereby a user of the transaction card may present the card in lieu of the paper money or coinage. Alternatively, transaction cards may be debit cards, whereby electronic money, such as money stored in an account, is removed from the account each time that the transaction card 20 is used. In addition, transaction cards may have a certain amount of money, or other valuable commodity, recorded thereon, whereby a user of the transaction card may remove the money directly from the transaction card. For example, retail stores now offer cards that can be purchased for a certain amount of money. That amount, or any other amount, may be represented on the transaction card. When the transaction card 25 is utilized, the amount represented on the card may be reduced until the transaction card represents that it cannot be utilized anymore, or that the card represents that it is

not worth any more money. In addition, other values besides currency may be represented on the transaction card, such as equivalent goods or services.

Transaction cards typically have a magnetic stripe provided, or some other means, for storing information relating to the transaction card, such as, a security code, and information relating to an account or an amount of money that the transaction card may represent. For example, if the transaction card is a credit card, the information contained on the magnetic stripe may relate to an account whereby use of the credit card may alert the account to release funds for the purchase of goods or services. Of course, the magnetic stripe or other means may further contain any other information to allow the transaction card to be utilized. The transaction card is typically fed into or through a reader that reads the information contained on the magnetic stripe to extract the information as needed when the transaction card is being used.

The transaction card may further contain other features that allow for the secure and efficient use of the transaction card, such as holographic security devices, signature panels, pictures of the owner of the transaction card, embedded microchips, or any other item or element that may be useful for the transaction card.

Transaction cards are typically sized according to standards set by the International Organization for Standardization (ISO). This means that most transaction cards being utilized are of the same size and dimensions, typically about 2 1/4 inches by about 3 3/8 inches in a generally rectangular configuration. However, a transaction card having dimensions according to this standard typically is too big to be stored in a convenient way except loose in a pocket, wallet or purse, or contained within a slot in a wallet or purse allowing the snug fit of the transaction card.

25 Transaction cards are, therefore, highly susceptible to being lost or stolen. Other

shapes and sizes would allow the transaction cards to be attached to, secured with, or otherwise stored with other items, such as key chains, for example.

A need exists, therefore, for a transaction card having the capability of being attached to securing means or stored in smaller areas than are currently allowed. For 5 example, a need exists for a transaction card that may be clipped or otherwise attached to a keychain, or some other means for securing the transaction card to another item, yet is small enough to remain inconspicuous and compact, but handy. Further, a need exists for a transaction card having the above-noted advantages and further that maintains the information or other features typically disposed on or within 10 a transaction card. Still further, a need exists for a case or housing for holding and/or storing the foldable transaction card contained therein.

Summary

The present invention relates to a transaction card having one or more fold lines therein to provide a compact and easily stored transaction card. Moreover, the 15 present invention relates to a foldable transaction card having one or more holes or apertures therein for holding a keychain, or other device for attaching the transaction card to another item, such as a set of keys, a wallet, or other item.

It is, therefore, an advantage to provide a transaction card that is foldable so as to be highly compact so that the transaction card may be stored in small areas. 20 Further, it is an advantage of the present invention to provide a transaction card that may be attached to another item via a securing means, such as a ring or chain. Moreover, it is an advantage to provide a foldable transaction card that may be contained within a housing or case.

It is particularly an advantage to provide a transaction card that can be 25 attached to a keychain, yet still remain small and compact. Therefore, an advantage

of the present invention is that the transaction card may be small enough to be inconspicuous and be secured to another item thereby minimizing the chance that the transaction card will be misplaced, lost or stolen.

It is a further advantage to provide a transaction card that is foldable and held 5 and/or stored within a case or housing that comprises other features typically found on or within a transaction card, such as security devices, embedded microchips, or magnetic stripes having information stored thereon or the like.

Additional features and advantages of the presently preferred examples are described in, and will be apparent from, the detailed description of the presently 10 preferred embodiments and from the drawings.

Brief Description of the Drawings

FIGS. 1A-1C illustrate a transaction card that is transversely foldable and having apertures for securing a ring or a keychain thereto.

FIGS. 2A-2C illustrate another transaction card that is transversely foldable . 15 FIGS. 3A-3D illustrate another transaction card that is transversely foldable having an aperture and slot for a ring or keychain.

FIGS. 4A and 4B illustrate a transaction card foldable longitudinally and parallel to the long edges of the transaction card.

FIGS. 5A and 5B illustrate a smaller-sized transaction card that is transversely 20 foldable.

FIGS. 6A and 6B illustrate a transaction card having fold lines disposed at angles to the edges of the transaction card but can be unfolded to be utilized within a point-of-sale machine.

FIGS. 7A and 7B illustrate a transaction card foldable once in a longitudinal 25 direction, and once in a transverse direction.

FIGS. 8A and 8B illustrate a transaction card having two longitudinal fold lines disposed parallel to edges of said transaction card thereby forming a foldable transaction card having three sections.

FIGS. 9A and 9B illustrate a foldable transaction card having a spring-loaded 5 clip for holding said foldable transaction card in a folded state.

FIG. 10 illustrates a foldable transaction card having a spring-loaded clip and a holder for attaching to a ring or keychain.

FIGS. 11A and 11B illustrate a transaction card foldable into thirds and having a spring-loaded clip and a holder for attaching to a ring or keychain.

FIGS. 12A and 12B illustrate a foldable transaction card disposed in a foldable 10 carrier, the foldable transaction card further having a spring-loaded clip and a holder for attaching to a ring or keychain.

FIGS. 13A and 13B illustrate a foldable transaction card that is longitudinally foldable, the transaction card having a spring-loaded clip and a holder for a ring or 15 keychain.

FIGS. 14A and 14B illustrate a longitudinally foldable transaction card disposed within a protective cover.

FIGS. 15A to 15D illustrate an embodiment of a foldable transaction card system.

FIGS. 16A to 16C illustrate an alternate embodiment of a foldable transaction 20 card system.

FIG. 17 illustrates an alternate embodiment of a foldable transaction card system having an actuating means disposed on an edge of a case for opening the case and accessing the transaction card disposed therein.

FIGS. 18A to 18C illustrate an alternate embodiment of a foldable transaction card system for a tri-foldable transaction card.

FIG. 19 illustrates a further alternate embodiment of a foldable transaction card system having an actuating means disposed on a surface of a case for opening the 5 case and accessing the transaction card disposed therein.

FIG. 20 illustrates a cross-sectional view of the foldable transaction card system in the alternate embodiment.

FIGS. 21A to 21C illustrate an alternate embodiment of a foldable transaction card.

10 FIG. 22 illustrates a cross-sectional view of the foldable transaction card in the alternate embodiment.

FIG. 23 illustrates a still further alternate embodiment of a foldable transaction card system.

15 FIGS. 24-28 illustrate still further alternate embodiments of non-traditionally-sized and shaped transaction cards that may be utilized in embodiments described herein.

Detailed Description

The present invention relates to a transaction card having one or more folds 20 therein to provide a compact and easily stored transaction card. Moreover, the present invention relates to a foldable transaction card having one or more holes or apertures therein for holding a keychain, or other device for attaching the transaction card to another item, such as a set of keys, a wallet, or other item. Moreover, a transaction card system is provided comprising a foldable transaction card and a case or housing for holding and/or storing the foldable transaction card.

Referring now to FIGS. 1A-1C, a first example of the present invention is illustrated. FIGS. 1A-1C illustrates a foldable transaction card 10, shown generically as merely having a magnetic stripe 12. Other features not shown, however, may be provided on the transaction card, such as a signature panel, an embedded microchip, a 5 holographic image, or the like. These features may allow the transaction card to function more easily, efficiently, and/or more securely.

Of course, the transaction card 10 typically comprises a plurality of layers (not shown) to form the rigid card. For example, transaction cards typically include inner layers of a polymeric material to provide the transaction card with thickness and bulk.

10 10 In addition, outer layers are typically provided comprising a polymeric material that protects the inner layers of the transaction card. In addition, the polymeric material of the outer layers may provide rigidity and further may add to the thickness of the transaction card. The transaction card 10, and the other transaction cards described herein, may be made from any generally known material typically used for transaction cards, such as, for example, polyvinylchloride (PVC) and polypropylene (PP).

15 Typically, transaction cards such as the ones described herein have multiple layers of polymeric materials. For example, a typical card may have one or more internal layers of PVC or PP, and outer layers of polyethylene terephthalate (PET) for rigidity and strength.

20 20 Transaction cards may further be transparent, as described in U.S. Patent Application No. 10/092,681, filed March 7, 2002, which is a continuation-in-part application of U.S. Patent Application No. 10/062,106, filed January 31, 2001, which is a continuation-in-part application of U.S. Patent Application No. 09/653,837, filed September 1, 2000 and further claims the benefit of U.S. Provisional Application No. 25 60/153,112, filed September 7, 1999; U.S. Provisional Application No. 60/160,519,

filed October 20, 1999; U.S. Provisional Application No. 60/167,405, filed November 24, 1999; U.S. Provisional Patent Application No. 60/171,689, filed December 21, 1999, each of which is expressly incorporated herein in its entirety. The transparent transaction card may contain a plurality of optically recognizable layers or an 5 infrared-blocking ink to allow the transparent transaction cards to be recognized by a card reader.

The transaction card 10 has a fold line 14 that allows the transaction card 10 to be folded, as illustrated in FIGS. 1B and 1C. The fold line may be made by scoring the outer layers of the transaction card 10 via a scoring means, such as a blade or a 10 laser beam and allowing the inner layers to act as a hinge when the transaction card is folded. Alternatively, the transaction card may include a reinforcing material at the location of the fold line 14 so that the fold line 14 does not pull apart, or otherwise 15 destroy the transaction card 10 when folded. Of course, other materials may be utilized in the transaction card 10 to act as a hinge at the fold line 14, and the invention should not be limited in this regard. Moreover, the fold line 14 may 20 comprise a break between the two halves of the transaction card 10 whereby a strip may be disposed on one or both sides of the transaction card 10 for holding the two halves together to form a hinge. The strip may be a fabric or a thermoplastic material, such as an elastomeric material that may be stretched when the transaction card is folded, yet retain its shape when the transaction card 10 is unfolded.

The magnetic stripe 12 may contain a material for storing information that may be read by a magnetic reader. Typically, the magnetic stripe 12 contains a series of digits that the magnetic card reader can utilize to obtain information about the account that the transaction card is associated with, or otherwise to obtain information 25 relating to the amount of money or other equivalent good or service represented by

the transaction card 10. The magnetic stripe 12 of the present embodiment is, necessarily, split into two halves because of the fold line 14 that bisects the magnetic stripe 12. Therefore, the information contained on the magnetic stripe 12 must be readable by a magnetic card reader at a point-of-sale machine that accounts for the 5 fold line 14. Typically, this means that some or all of the information should be contained on a first section 16 of the magnetic stripe 12, and the rest or a duplicate of the information should be contained on a second section 18 of the magnetic stripe 12. Therefore, the information contained on the magnetic stripe 12 may be readable by the magnetic stripe reader. Alternatively, the magnetic stripe may be provided in 10 parallel with one of the short ends of the transaction card, as illustrated in FIGS. 2A-2C, below.

Disposed in the transaction card 10 may be a plurality of apertures 20, 22, 24 and 26 that may be utilized to attach the transaction card 10 to a securing means, such as a ring 28, as illustrated in FIGS. 1A-1C. Of course, any other securing means, such 15 as a chain or string, for example, may be utilized and the invention should not be limited as herein described. The securing means can be provided in any of the apertures as needed. Aperture 20 may include a channel 28 that allows a securing means to be slipped into the aperture 20. For example, as illustrated in FIG. 1C, the ring 28 may be provided within the aperture 26, but may also fit within the aperture 20 through the channel 28 so that the transaction card may stay folded. Alternatively, 20 the ring 28 may be provided through one or both of the apertures 22, 24. If the ring 28 is provided through both of the apertures 22 and 24, the ring 28 may be configured in such a way as to allow the transaction card 10 to be unfolded when used.

FIGS. 2A-2C illustrate an alternate example of the present invention of a 25 foldable transaction card 50 having a magnetic stripe 52 that is parallel to a short side

of the transaction card 50. The transaction card 50 may be very similar to the transaction card 10, as described above and may have a fold line 54 that divides the transaction card into two halves. Of course, more than one fold line may be provided in the transaction card 50 for dividing the card into more than just two halves, as 5 described below. The transaction card may further have a plurality of holes 56 provided along the fold line 54 thereby giving the transaction card 50 a distinctive appearance, and further aiding in allowing the transaction card 50 to be folded along the fold line 54.

10 The transaction card 50 may further have apertures 58, 60 for a securing means, such as a ring 62, or other securing means such as a chain or a string, for example. The ring 62 may be provided through the aperture 60, and may further be clipped into the aperture 58 after the transaction card 50 has been folded, as illustrated in FIG. 2C. To allow the ring 62 to be clipped into the aperture 58, the aperture 58 may include a channel 64.

15 FIGS. 3A-3D illustrate a still further example of the present invention of a transaction card 100 having similar features to the transaction card 10 of FIGS. 1A-1C. For example, the transaction card 100 includes a magnetic stripe 102 and a fold line 104 allowing the transaction card 100 to be folded, thereby making the transaction card smaller and more compact. Each half of the transaction card 100 20 may include a slit 110 connecting two apertures 112 and 114. A ring 116, or other securing means, may be provided through the apertures 112 such that, when folded, as illustrated in FIGS. 3B-3D, the ring 116 may translate through the slits 110 to rest in the aperture 114, thereby keeping the two halves of the transaction card 100 together when folded. If the transaction card 100 is to be opened, the ring 116 is merely 25 translated back to the apertures 112 and the transaction card 100 is unfolded.

FIGS. 4A-4B illustrate another example of a transaction card 120 having a magnetic stripe 121 and a fold line 122 disposed longitudinally through the center of the transaction card 120 such that when the transaction card 120 is folded along said fold line 122, a folded transaction card 124 is created, as shown in FIG. 4B, which 5 thereby protects the magnetic stripe 121. It should be noted that a smaller-sized transaction card may be created even if the fold line is not disposed longitudinally through the center of the transaction card 120.

FIGS. 5A-5B illustrate another example of a miniature transaction card 130 having a magnetic stripe 131 and a fold line 132 disposed transversely through the 10 center of the card 130 such that when the miniature transaction card 130 is folded along said fold line 132, a folded miniature transaction card 134 is created, as illustrated in FIG. 5B. The size of the miniature transaction card 130 may be smaller than a normally-sized transaction card. Smaller-sized transaction cards are generally described below with reference to FIGS. 21-28. It should be noted that a smaller- 15 sized transaction card may be created even if the fold line is not disposed transversely through the center of the transaction card 130.

FIGS. 6A-6C illustrate another example of a foldable transaction card 140 having a magnetic stripe 141 and two fold lines 142, 144 disposed parallel to each other but diagonal relative to the edges of the transaction card 140. The fold lines 20 142, 144 allow the transaction card 140 to be folded such that flaps 143, 145 fold over section 149 to form a folded transaction card 146, as illustrated in FIG. 6B, which substantially protects the magnetic stripe 141. When unfolded, the transaction card 140 may be inserted into a slot 147 of an automatic teller machine (ATM) without difficulty, as illustrated in FIG. 6C.

FIGS. 7A-7B illustrate another example of a foldable transaction card 150 having a magnetic stripe 151 and two fold lines 152, 154 that are disposed both longitudinally and transversely across the transaction card 150, thereby being disposed perpendicular to each other. The fold lines 152, 154 allow the transaction 5 card 150 to be folded twice to form a folded transaction card 156 that protects the magnetic stripe 151, as illustrated in FIG. 7B.

FIGS. 8A and 8B illustrate an alternate example of the present invention of a foldable transaction card 160 having a magnetic stripe 161 and two fold lines 162, 164 that are disposed longitudinally, but subdivide the transaction card 160 into three 10 sections: a first section 163, a second section 165 and a third section 167. Alternatively, the transaction card 160 may have two fold lines that are disposed transversely across the transaction card but also subdivide the transaction into thirds (not shown). The fold lines 162, 164 allow the transaction card 160 to be folded twice to form a folded transaction card 166 that is small and compact and further that 15 protects the magnetic stripe. The folded transaction card 166 may be folded as shown in FIG. 8B, which shows the transaction card 160 such that the outer sections 163, 165 of the transaction card 160 are folded inwardly on opposite sides of the middle of the three sections 167 in a "Z" configuration. Alternatively, the transaction card 160 may be folded such that the outer sections 163, 165 of the transaction card 160 may 20 be folded inwardly on the same side of the middle section 167 (not shown). Of course, the fold lines 162, 164 may not subdivide the transaction card into thirds, but subdivide the transaction card into three unequal sections. In addition, additional fold lines may be provided such that the transaction card may be subdivided into four or more equal or unequal portions.

In an alternate example of the present invention, a transaction card, similar to the cards described above with respect to FIGS. 1A-8, may have a fold line disposed between at least first and second sections. Further, the transaction card may have a snap, button or other mechanism (collectively a "snap") which may hold the folded 5 transaction card in a first engaged or locked position (collectively, the "engaged position"). The transaction card may not be useably accessible when the snap is in the engaged position. When the snap is actuated, the snap disengages or unlocks (collectively, the "dis-engaged position") and the second section of the transaction 10 card unfolds into an "unfolded position". As noted, the fold line may be disposed either longitudinally or transversely across the face of the transaction card.

In the unfolded position, the transaction card becomes a full-sized financial transaction card and/or a card that may be used as a form of payment to conduct transactions and in standard financial transaction card readers, such as those at retail point-of-sale locations or ATM (cash) machines. In a preferred embodiment, when 15 the second section is folded and is otherwise inaccessible, the external surface area of the card is approximately half compared to when the second section is useably accessible in the unfolded position. In an alternate embodiment, the transaction card can be refolded by folding the first and second sections in relation to one another and re-engaging the snap to keep the card folded. To allow folding, the first and second 20 sections may be coupled by a flexible material or hinge. In an alternative embodiment, the card may have a plurality of folding sections.

FIGS. 9A and 9B illustrate an alternate example of a foldable transaction card 170 having two sections 176, 178 separated by a fold line 172. The transaction card 170 may be maintained in a folded state via a spring-loaded clip. By releasing the 25 spring-loaded clip 174, the folded transaction card 170 may unfold along fold line 172

to form an unfolded transaction card 179 having a visible and usable magnetic stripe 171. The spring-loaded clip 174 may be disposed on a side 177 of the section 176 that forms a side of the transaction card 170 when in the unfolded state.

Moreover, FIG. 10 illustrates a foldable transaction card 180 having two 5 sections 186, 188 separated by a fold line 182. The transaction card 180 may be maintained in the folded state via a spring-loaded clip 184. The transaction card 180 may be similar to the transaction card 170, as illustrated in FIGS. 9A and 9B, except the clip 184 may be disposed on a side 187 of the section 186 that forms the bottom of the transaction card (opposite the magnetic stripe 181). The spring-loaded clip 184 10 may be interconnected with a holder 190 having the spring-loaded clip 184 disposed thereon. The transaction card 180 may be interconnected with the holder 190 via pins 192, or via any other means that holds the transaction card 180 to the holder 190. The transaction card 180 may be removable from the holder 190 so that the transaction card 180 may be usable in any point-of-service machine, such as a payment machine 15 or an automatic teller machine.

Alternatively, the transaction card 180 may be permanently attached to the holder 190. The holder may further be attachable to a key chain, or the like, such that keys or the like may be removably attached to the holder 190, thereby minimizing the chances that the transaction card 180 may be misplaced. In addition, the transaction 20 card 180 may be easily accessible if attached to a keychain or the like.

On external surfaces of the transaction card 180 (on the face of the transaction card opposite the magnetic strip 181) there may be disposed a protective material, such as a metallized surface, or other surface, that protects the transaction card 180 when the transaction card 180 is in the folded state. Specifically, a material such as 25 aluminized polyester may be utilized as a coating or external layer of the transaction

card 180. As shown in FIG. 10, the magnetic stripe 181 may be disposed on an inside surface of the foldable transaction card 180 so that when folded, the magnetic stripe 181 is protected.

FIGS. 11A and 11B illustrate a still further example of the present invention
5 that is similar to the example shown in FIG. 10. FIGS. 11A and 11B show a transaction card 200 having a magnetic stripe 201 that may have a folded state (as shown in FIG. 11A) or an unfolded state (as shown in FIG. 11B). The transaction card 200 may have three sections 204, 206 and 208 that are separated by fold lines 210, 212. The outer sections 204 and 208 may fold inwardly toward the center 10 section 206 to form the folded transaction card 202, thereby protecting the magnetic stripe 201. In addition, the outside surface of the transaction card 200 (i.e., the surface opposite the magnetic stripe) may be made from a material that protects the transaction card 200, such as a metallized material. For example, the outside layer of the transaction card 200 may be made from aluminized polyester.

15 A holder 214 may be disposed on the transaction card 200 on the central section 206, such that when folded together to form the folded state, a spring-loaded clip 216 may hold the folded transaction card 200 together. Although the present example is shown with the holder 214 disposed on the central section 206, the holder 214 may be disposed on any of the sections 204, 206 or 208 such that when folded, 20 the holder may hold the folded transaction card in place with the spring-loaded clip 216. When actuated, the spring-loaded clip allows the outer sections 204, 208 to unfold from the central section 206, thereby forming the transaction card 200 in the unfolded state. As with the transaction card 180, as shown in FIG. 10, the transaction card 200 may be detachable from the holder 214 such that the transaction card 200 25 may be utilized in a point-of-sale machine, such as an automatic teller machine.

In another embodiment, the transaction card has an associated holder, receptacle, pocket, or sleeve (collectively, the "carrier") that can fold in relation with the transaction card and in which the transaction card can be enclosed in whole or in part. The carrier itself may have a snap in an engaged or locked position such that in 5 a first position, a second section of the carrier is folded in relation to a first section of the carrier (the "folded position of the carrier"), such that the transaction card is not useably accessible. When the carrier snap is actuated, the snap disengages or unlocks and the carrier second section unfolds in relation to the carrier first section, making 10 accessible a foldable transaction card that simultaneously unfolds in relation to the carrier. The transaction card may be coupled to the carrier in a manner that allows it to be attached or detached. The carrier, in order to fold, may also have at least first and second sections coupled by a flexible material or hinge.

An example of this is shown in FIGS. 12A and 12B, which shows a transaction card 220 having a magnetic stripe 221 that may be in an unfolded state (as 15 shown in FIG. 12B) or a folded state (as shown in FIG. 12A) due to a fold line or hinge 222. The transaction card 220 may be disposed within a carrier 224 that may also have a fold line or hinge 226. Both the transaction card 220 and the carrier 224 may fold via the fold lines 222 and 226, respectively, to allow the transaction card to be disposed in the folded state, as illustrated in FIG. 12A. Further, the transaction 20 card 220, which is disposed within the carrier 224, may be interconnected with a holder 228 having a spring-loaded clip 230 which can hold both the carrier 224 and the transaction card 220 in the folded state. When the transaction card 220 is in the folded state and the clip 230 is actuated, the transaction card 220 and the carrier 224 may be unfolded. When the transaction card 220 and the carrier 224 are folded, the 25 clip may lock the transaction card 220 into the folded state.

Both the transaction card 220 and the carrier 224 may be detachable from the holder 228. Alternatively, the transaction card 220 may only detachable from the carrier 224, thereby allowing the transaction card to be utilized in point-of-sale machines, such as ATMs. Alternatively, the transaction card 220 may be detachable and removable from the carrier 224, which may also be detachable and removable from the holder 228.

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Although FIGS. 12A and 12B illustrate that the carrier 224 only covers a portion of the transaction card 220, the carrier 224 may cover more or less of the transaction card 220 than shown. For example, the carrier 224 may cover the entire 10 surface of the transaction card 220 such that the transaction card 220 must be fully removable from the carrier 224 when utilized.

Alternatively, a transaction card may be foldable within a foldable carrier and slidable from the foldable carrier, such that the carrier and the transaction card together form a full-sized transaction card that may be utilized in point-of-sale 15 machines. For example, a spring-loaded clip may be actuated thereby allowing a carrier and transaction card to unfold. Once unfolded, a slot may be exposed that allows a user of the transaction card to push the transaction card out of the carrier, thereby exposing the magnetic stripe. Alternatively, a button may be exposed whereupon actuating the button allows the transaction card to be slid from the carrier. 20 However, the transaction card may not be fully removable from the carrier, but may merely be slidable such that a full-sized transaction card is made from the smaller-sized transaction card and the carrier.

The transaction card 220 may have a metallized surface such that the surface 25 protects the transaction card 220. For example, the surface of the transaction card may be made from aluminized polyester. Alternatively, the carrier 224 may be

metallized, or made from some other protective material, to protect the transaction card 220. When folded, the transaction card 220 protects the magnetic stripe 221.

In an alternate example of the present invention, FIGS. 13A and 13B show a foldable transaction card 250 having a magnetic stripe 251 that may be foldable 5 because of a fold line 252. The transaction card 250 may be disposed within a case 254 that is interconnected with a holder 256 having a spring-loaded clip 258. The case 254 may be formed like a clamshell, in that the transaction card 250 form the two halves of the case and the magnetic stripe 251 is exposed when the case 254 is opened. The bottom portion or first section 260 of the case 254 may have a portion of 10 the transaction card 250 affixed thereto, or may be formed simply as a protective layer on the transaction card 250, such as aluminized polyester or the like. The top portion or second section 262 of the case 254 may also have a portion of the transaction card 250 affixed thereto, or may also be formed simply as a protective layer on the transaction card 250, such as aluminized polyester or the like. The spring-loaded clip 15 258 may hold the case 254 together when the case is in the folded state.

FIGS. 14A and 14B show an alternate example of a transaction card 270 having a magnetic stripe 271 that is similar to the transaction card 250, described above in relation to FIGS. 13A and 13B, except the transaction card 270 may have be disposed within a case 274 having a bottom portion or first section 280 of the case 20 274 and a protective cover or second section 272 of the case 274. The protective cover 272 may be made from metal, plastic or other material that will protect the foldable transaction card 270 contained therein. Specifically, the transaction card 270 may have a first section 279 and a second section 276, wherein the second section 276 has the magnetic stripe 271. The first section 279 may be integrally formed with or 25 removably attached to the bottom portion 280 of the case 274. If the first section 279

is integrally formed with the bottom portion 280 of the case 274, it may have a metallized surface, or other protective surface, to protect the first section 279 of the transaction card 270 when the transaction card 270 is folded and the protective cover 272 is folded over the bottom portion 280.

5 When folded together, the transaction card 270 may be enclosed within the protective cover 272 and the bottom portion 280, as shown in FIG. 14A. When utilized, an individual may actuate a spring-loaded clip 282 that allows the protective cover 272 to open, thereby exposing the transaction card 270 therein. The first section 276 may then be unfolded, thereby exposing the magnetic stripe 271 to be 10 utilized at a point-of-sale machine.

FIGS. 15A-15D illustrate an alternate example of a foldable transaction card system 300 that is similar to the foldable transaction card system 270, described above with reference to FIGS. 14A-14B. The foldable transaction card system 300 may comprise a case 301 and an actuator 302, such as a spring-loaded clip, a button or the like, that may be utilized to open the case 301, as illustrated in FIG. 15B, via a hinge 15 304. The hinge 304 may be tensioned to automatically shut when not held open. Alternatively, the hinge 304 may be tensioned to automatically open when the actuator 302 is actuated. The case 301 includes a lid 303 and a base 305 interconnected via the hinge 304.

20 A foldable transaction card 306 may be contained within the case 301. The foldable transaction card 306 may have a first section 310 and a second section 308 that may be interconnected via a transaction card hinge 312. The transaction card hinge 312 may comprise a line of weakness disposed in the one or more layers of the transaction card 306. Alternatively, the hinge 312 may comprise a hinge material 25 321, such as a polymeric material, a fabric, or some other equivalent reinforcing

material, which may be disposed over the line of weakness or space between the first section 310 and the second section 308. Preferably, the hinge material may be a thermoplastic polymeric sheet or film, such as, for example, polypropylene, that may be adhered to both the first section 310 and the second section 308 to allow the first section 310 and the second section 308 to fold relative to each other.

Further, disposed on an opposite side of the transaction card 306 may be a further hinge material 322, as illustrated in FIG. 15D, that may allow the first section 308 and the second section 310 to be foldable relative to each other. The further hinge material 322 may be any material, such as a polymeric material, a fabric, or other like material, similar to the hinge material 321, described above. The further hinge material 322 may further be a softer and more elastic material than the hinge material 321 so as to allow the transaction card 306 to be folded to protect a magnetic stripe 314 that may be disposed on the same side of the transaction card 306 as the hinge material 321. The further hinge material 322 may preferably be a nitrile or neoprene elastomeric material that can easily stretch when the transaction card 306 is folded and yet retains its shape when the transaction card 306 is unfolded.

Of course, the transaction card 306 may include a magnetic stripe 314 or other features not shown that are typically contained on a transaction card, such as a holographic security indicator, embossed alpha-numeric characters, graphics, a signature panel, microchip or other like feature.

The transaction card 306 may be disposed within the case 301 and held within the case 301 via tracks 316a, 316b within which the transaction card 306 may be slid. In addition, the transaction card 306 may be removable from the tracks 316a, 316b so that the transaction card 306 may be fully removable from the case 301, as illustrated in FIG. 15C.

FIG. 15D illustrates the case 301 having the tracks 316a, 316b cut-away to reveal tabs 318a, 318b that may be disposed within the tracks 316a, 316b that may engage with the transaction card 306 when the transaction card 306 is slid within the tracks 316a, 316b. The tabs 318a, 318b may engage recesses 320a, 320b that may be disposed on or within the first section 310 of the transaction card 306. The tabs 318a, 318b may hold the transaction card 306 within the case 301, thereby keeping the transaction card 306 from falling out of the case 301 when the case 301 is opened. However, the transaction card 306 may be easily removable from the case when desired by the card user by pulling the transaction card 306 from the case 301 and 10 sliding the transaction card 306 out of the tracks 316a, 316b.

FIGS. 16A-16C illustrate an alternate example of a foldable transaction card system 350 comprising a case 351, having a lid 353 and a base 355. The lid 353 and the base 355 may be separated by a hinge 354 that is preferably tensioned so as to automatically close the lid 353 upon the base 355. Therefore, to open the case 351, an 15 individual must merely swing the lid 353 from the base 355 against the tension of the hinge 354, thereby allowing a foldable transaction card 356 to be exposed.

The foldable transaction card 356 may have a first section 360 and a second section 358 that are interconnected via a transaction card hinge 362. The transaction card hinge 362 may be similar, if not identical, to the transaction card hinge 312, as 20 described above with reference to FIGS. 15A-15D.

The foldable transaction card 356 may be contained within the case 351 by being disposed within tracks 366a, 366b. The tracks may engage the foldable transaction card 356 when the foldable transaction card 356 is slid within the tracks 366a, 366b. Moreover, tabs (not shown) may be disposed within the tracks, and may 25 be similar, if not identical, to the tabs 318a, 318b as described above with reference to

FIG. 15D. Moreover, the foldable transaction card may have recesses (not shown) substantially as described above with reference to the foldable transaction card 306 described above.

In use, the lid 353 may be swung from the base 355 to expose the foldable 5 transaction card 356 contained therein. The foldable transaction card, having the transaction card hinge 362 may be opened to expose a magnetic stripe 364 disposed on or within the foldable transaction card 356. The unfolded transaction card may be swiped or otherwise utilized at a point-of-sale device while remaining disposed within the case 351. Alternatively, the transaction card 356 may be removed from the case 10 351 to be utilized, such as being physically disposed within a point-of-sale device, such as an automated teller machine, or the like.

FIG. 17 illustrates an alternate embodiment of a foldable transaction card system 400 of a foldable case 401 having a lid 403 and a base 405 separated by a hinge 404. A foldable transaction card 406 may be disposed within tracks 416a, 416b 15 so as to be removable from the case 401 when the case 401 is unfolded. The case 401 further has an actuator 402 disposed on the edge of the lid 403 for allowing the case 401 to be opened when the actuator is actuated. Specifically, the lid 403 and the base 405 may remain together when the case 401 is folded by an engaging means, such as a clip or other like device. By actuating the actuator 402, the engaging means may 20 release, thereby allowing the lid 403 to swing away from the base 405. The hinge 404 may be spring-loaded, thereby allowing the lid 403 to easily and automatically swing away from the base 405. The foldable transaction card 406 contained therein may be unfolded via a transaction card hinge 412, thereby exposing the magnetic stripe 414. The foldable transaction card 406 may then be utilized. Alternatively, the foldable 25 transaction card 406 may be removed from the case 401 and utilized.

The foldable transaction card 406 may be removably disposed within the case 401 in a similar manner as described above with reference to FIGS. 15A-15D and FIGS. 16A-16C. Specifically, the foldable transaction card 406 may be contained within the case 401 by being disposed within the tracks 416a, 416b. The tracks may 5 engage the foldable transaction card 406 when the foldable transaction card 406 is slid within the tracks 416a, 416b. Moreover, tabs (not shown) may be disposed within the tracks 416a, 416b, and may be similar, if not identical, to the tabs 318a, 318b as described above with reference to FIGS. 15A-15D. Moreover, the foldable transaction card may have recesses (not shown) substantially as described above with 10 reference to the foldable transaction card 306 described above in FIG. 15D.

FIGS. 18A-18C illustrate an alternate embodiment of a foldable transaction card system 450 substantially similar to the foldable transaction card system 300 illustrated above with respect to FIGS. 15A-15D, including an actuator 452 substantially similar to the actuator 302 described above. However, the system 450 15 may comprise a case 451 that may be smaller in width than the case 301. The foldable transaction card 456 disposed within the case 451 may be tri-folded, thereby providing a folded transaction card that takes up less width space, thereby allowing a smaller case 451 to be utilized. As with the foldable transaction card 306, described above, a foldable transaction card 456 may be usable within the case 401, as 20 illustrated in FIG. 18B, or may be completely removed from the case 401, as illustrated in FIG. 18C.

FIG. 19 illustrates an alternate embodiment of a foldable transaction card system 500 of a case 501 having a foldable transaction card contained therein (not shown), which is substantially similar to the foldable transaction card system 400, 25 described above with reference to FIG. 17. However, the foldable transaction card

system 500 includes an actuator 502 disposed on a surface of a lid 503 of the case 501, having the foldable transaction card (not shown) contained therein. The actuator 502 may be disposed such that the actuator does not protrude greatly or at all from the surface of the lid 503. By actuating the actuator the case 501 may be opened to access 5 the foldable transaction card (not shown) that may be contained therein.

FIGS. 20A-20B illustrate cross-sectional views of the case 501 illustrating the actuator that allows the case 501 to open when the actuator 502 is actuated. Specifically, FIG. 20A illustrates the actuating mechanism when the case 501 is closed. The actuator 502 is interconnectedly engaged with an arm 510 having an end 10 512 that may be configured to engage a tab 514. The end 512 of the arm 510 engages the tab 514 to keep the case 501 from opening. When the actuator 502 is actuated, by depressing the actuator 502 or otherwise moving the actuator 502, the end 512 of the arm 510 may disengage from the tab 514, thereby allowing the case 501 to open, exposing the foldable transaction card contained therein. For example, as illustrated 15 in FIG. 20B, the actuator 510 may be moved with a thumb or finger, thereby moving the arm 510 and disengaging the end 512 of the arm 510 from the tab 514.

FIGS. 21A-21B illustrates an alternate embodiment of a foldable transaction card 550 having a shape different from that of a traditional transaction card. The foldable transaction card 550 includes features common to traditional transaction 20 cards, such as a signature panel 560 and a magnetic stripe 562. Of course, other features common to traditional transaction cards may also be included, such as holographic images useful as security indicators, embedded microchips, or other like features.

Specifically, the transaction card 550 comprises two halves 551, 553 that may 25 be attached together via a hinge material 554 and a hinge backing material 556. The

hinge material 554 may comprise an elastomeric material, such as a nitrile or neoprene elastomeric material, that may be disposed between the two halves 551, 553. Of course, any other hinge material is contemplated that may attach the two halves 551, 553 together, thereby allowing the transaction card 550 to fold. The hinge 5 material 554 may, therefore, stretch when the foldable transaction card 550 is folded but retain its shape when the transaction card 550 is unfolded. Typically, the foldable transaction card 550 is folded such that the signature panel 560 and the magnetic stripe 562 are disposed within the folded transaction card, thereby protecting the signature panel and, especially, the magnetic stripe. The hinge backing material 556 10 may be provided on an opposite side of the transaction card 550 to provide reinforcement so that the two halves 551, 553 do not separate. Typically, the hinge backing material may be polypropylene, or other thermoplastic material that reinforces the hinge created between the two halves 551, 553 of the foldable transaction card 550. Of course, other materials are contemplated that can reinforce 15 the hinge created between the two halves 551, 553. FIG. 21C illustrates the foldable transaction card 550 folded.

The foldable transaction card 550 may be any size. Preferably, the foldable transaction card 550 may have one or more dimensions smaller than traditional transaction cards. Specifically, a traditional transaction card may be about 3 3/8 20 inches long and about 2 1/4 inches wide. The foldable transaction card 550 may have a greatest length (measured from the middle of the foldable transaction card 550) that is less than 3 3/8 inches. Particular embodiments illustrating non-traditionally-sized transaction cards are described herein with reference to FIGS. 24-28, as described below.

FIG. 22 illustrates a cross-sectional view of the transaction card 550 folded, thereby illustrating the hinge material 554 and the hinge backing material 556 utilized to create the hinge in the foldable transaction card 550. Specifically, the hinge material 554 is stretched when the transaction card 550 is folded. Because the hinge material 554 may be made from an elastomeric material, the hinge material 554 may stretch when the transaction card 550 is folded and then may retain its original shape when the transaction card 550 is unfolded.

FIG. 23 illustrates a foldable transaction card system 600 incorporating the foldable transaction card 550, described above with respect to FIGS. 21A-21C and FIG. 22. The foldable transaction card 550 may include the signature panel 560 and the magnetic stripe 562. Moreover the foldable transaction card system 600 may include a case 601 that is substantially similar to the foldable transaction card system 400, described above with reference to FIG. 17. However, the case 601 may include tracks 616a, 616b that are generally shaped like the edges of the foldable transaction card. Specifically, since the edges of the foldable transaction card 550 may have curved edges, rather than straight edges, which would be typical for a traditional transaction card, the tracks 616a, 616b may also be curved to follow the curve of the transaction card 550. Alternatively, the tracks 616a, 616b may be any other shape to hold the transaction card 550 therein. In addition, since the foldable transaction card 550 may have at least one dimension that is smaller than traditional transaction cards, the case 601 may be smaller than if a traditionally-sized transaction card was utilized.

The transaction cards of the present embodiment described herein may have lengths and widths that are smaller or larger than traditional transaction cards. More specifically, a traditional transaction card may have a length of about 3 3/8 inches and a width of about 2 1/4 inches. Therefore, a transaction card having a length, for

example, of less than 3 3/8 inches may allow for a smaller foldable transaction card system when the transaction card has a fold therein and is disposed within a case, as described above. FIGS. 24-28 illustrate various embodiments of transaction cards that may be utilized herein having dimensions, i.e., lengths and widths, that are non-traditional.

5 The transaction card 610 shown in FIG. 24 has a width (W) of less than approximately 1 inch and a length (L) of also less than approximately 1 inch. For example, as shown in Fig. 24, the transaction card 610 is generally square and the width W could be approximately 3/4 inch and the length L could also be 10 approximately 3/4 inch. A fold line 612 may be disposed within the transaction card 610, as described above.

FIGS. 25A and 25B illustrate alternate embodiments of a transaction card 620 having a magnetic stripe 624 that is parallel to a side 626 of the transaction card 620. The transaction card 620 may be made from the same or similar materials as the 15 transaction card 610 described above with reference to FIG. 1. In addition, the transaction card 620 may have a fold line 622 disposed within the transaction card 620, as described above.

The transaction card 620 shown has a width (W) and a length (L). In this particular embodiment, the transaction card 620 has a length L of greater than 3 20 inches, and more preferably of greater than approximately 3 3/8 inches. For example, as shown in FIG. 25A, the transaction card 620 may have a width W of approximately 2 inches and a length L of approximately 4 inches. Alternatively, as shown in FIG. 25B, the width could be approximately 1 inch and the length L could be approximately 3 7/8 inches. Therefore, the transaction card 20 may be longer than a 25 standard transaction card, but narrower than a standard transaction card. This may

allow the transaction card 620 to be kept or stored in locations where the widthwise dimension limits the storage capability of the transaction card 620.

FIGS. 26A and 26B illustrate further alternate embodiments of a transaction card 630 having a magnetic stripe 634 that is parallel to a side 636 of the transaction card 630. The transaction card 630 may be comprised of the same materials as described above with reference to the transaction card 610. In addition, the transaction card 630 may have a fold line 632 disposed within the transaction card 630, as described above.

The transaction card 630 shown has a width (W) and a length (L). In the embodiment described herein with reference to FIGS. 26A and 26B, the transaction card 630 has a length L of between approximately 1 inch and approximately 3 inches and a width W of less than approximately 1 inch or greater than approximately 1 7/8 inches. For example, as shown in Fig. 26A, the transaction card 630 may have a width W of approximately 3/4 inch and a length L of approximately 2 1/4 inches. Alternatively, as shown in Fig 26B, the width W could be approximately 2 1/8 inches and the length L could be approximately 3 inches.

FIG. 27 illustrates an alternate embodiment of a transaction card 640 having a magnetic stripe 644 that is parallel to a side 646 of the transaction card 640. Alternately, the magnetic stripe may be parallel to one of the other sides 647, 648 or 649. The transaction card 640 may be comprised of the same or similar materials as that of the transaction card 610. In this particular embodiment, the transaction card 640 has at least one set of opposing sides 646 and 647, or 648 and 649 that is not parallel. In addition, the transaction card 640 may have a fold line 642 disposed within the transaction card 640, as described above

The transaction card 640 shown has a width (W) and a length (L). The card 640 has a length L of between approximately 1 inch and approximately 1 7/8 inches or a length L of greater than approximately 3 inches, and more preferably of greater than approximately 3 3/8 inches. In addition, the width W is less than approximately 5 1 inch or greater than approximately 1 7/8 inches. For example, as shown in FIG. 27, the transaction card 640 may have a width W of approximately 3/4 inch and a length L of approximately 1 1/2 inches. Alternatively, the width W could be approximately 2 inches and the length L could be approximately 3 1/2 inches.

FIG. 28 illustrates an alternate embodiment of a transaction card 650 having a 10 magnetic stripe 654 that is parallel to a side 656 of the transaction card 650. The transaction card 650 may comprise the same or similar material as that described above with reference to the transaction card 610, as noted above of the same or similar construction to the transaction card 610 described above. In addition, the transaction card 650 may have a fold line 652 disposed within the transaction card 15 650, as described above

The transaction card 650 may have any length L or width W, so long as the card 650 has a magnetic stripe 652 of length M, which is less than approximately 1 inch. Alternatively, the transaction card 650 may have any length L or width W, so long as the length M of the magnetic stripe 654 is greater than approximately 3 inches 20 long and preferably greater than approximately 3 3/8 inches long.

As noted above, each embodiment of a non-traditionally sized transaction card (i.e., having dimensions larger or smaller than traditionally-sized transaction cards) may have a fold line disposed therein and a hinge material that allows the transaction card to fold and unfold. The foldable non-traditionally sized transaction card may be 25 incorporated into a foldable transaction card system, whereby the foldable transaction

card has a case or housing for holding and/or storing the foldable transaction card. The non-traditionally sized foldable transaction card allows for the use of cases that are smaller in a certain dimension, such as a length and/or width, thereby providing transaction card systems that may be smaller, and more usable, especially when 5 incorporated onto a keychain or other like connecting means. Of course, other sizes and shapes of transaction cards may be utilized in the present invention to arrive at a foldable transaction card system that is compact and convenient.

In an alternate embodiment of the present invention, a foldable transaction card system may be combined with a money clip. For example, the embodiments 10 described herein of a foldable transaction card and case or housing may include a money clip on a surface of the case or housing for holding and/or storing currency, or other like material. Moreover, the foldable transaction card systems may further be combined with a mobile telephone, such as a cellular telephone, or other personal communication device, such that the foldable transaction card may be removably 15 attached to a housing or case that may be interconnected with the mobile telephone. Of course, foldable transaction card systems may be incorporated into other items as well, such as personal digital assistants ("PDAs") or other like devices.

The present invention has been described above with reference to exemplary 20 embodiments. However, those skilled in the art having read this disclosure will recognize that changes and modifications may be made to the exemplary embodiments without departing from the scope of the present invention.

Claims

We claim:

1. A transaction card system comprising:
 - a foldable transaction card wherein said foldable transaction card comprises a
 - 5 first section and a second section wherein a hinge is disposed between the first and second sections; and
 - a housing surrounding the transaction card when the transaction card is in a folded state wherein the housing comprises a hinge for folding said housing.
2. The transaction card system of claim 1 wherein the transaction card is
- 10 removably disposed within the housing.
3. The transaction card system of claim 1 wherein at least the first section of the transaction card is attached to the housing.
4. The transaction card system of claim 1 wherein the housing comprises a first section and a second section wherein the hinge is disposed between the first and
- 15 second sections.
5. The transaction card system of claim 4 wherein the first section of the transaction card is attached to the first section of the housing.
6. The transaction card system of claim 1 wherein the housing comprises an attaching means and the transaction card is attached to the housing via the attaching
- 20 means.
7. The transaction card system of claim 6 wherein the attaching means comprises a track, wherein the transaction card is disposed within the track.
8. The transaction card system of claim 7 wherein the first section of the transaction card is removably disposed within the track.

9. The transaction card system of claim 1 wherein the housing comprises an opening means for opening the housing to access the transaction card disposed therein.
10. The transaction card system of claim 1 wherein the opening means comprises an actuator whereby actuating the actuator allows the housing to open.
5
11. The transaction card system of claim 1 wherein the hinge of the housing is spring-loaded.
12. The transaction card system of claim 11 wherein the spring-loaded hinge of the housing allows the housing to spring open when opened.
- 10 13. The transaction card system of claim 1 wherein the first section of the transaction card is attached to the housing and the second section unfolds outside the housing when the housing is opened.
14. The transaction card system of claim 13 wherein the second section comprises an electronic storage means for storing information on the transaction card that is readable with an electronic storage means reader.
15
15. The transaction card system of claim 14 wherein the storage means is a magnetic stripe.
16. The transaction card system of claim 15 wherein the magnetic stripe is readable by a magnetic stripe reader without removing the transaction card from the housing.
20
17. The transaction card system of claim 15 wherein the magnetic stripe is readable by a magnetic stripe reader after the transaction card is removed from the housing.
18. The transaction card system of claim 1 wherein the hinge between the first and
25 second sections of the transaction card comprises a fold line in said transaction card.

19. The transaction card system of claim 1 wherein the hinge comprises a strip interconnected to both the first and second sections.
20. The transaction card system of claim 1 wherein the transaction card has at least one dimension smaller than a traditional transaction card when the transaction card is in an unfolded state.

FIG. 1A

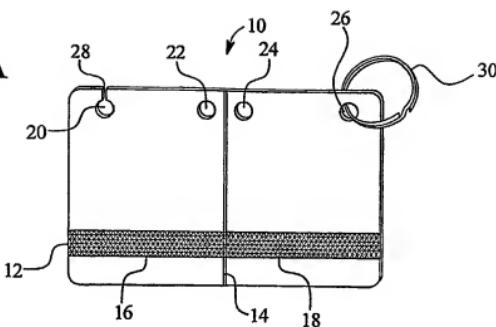


FIG. 1B

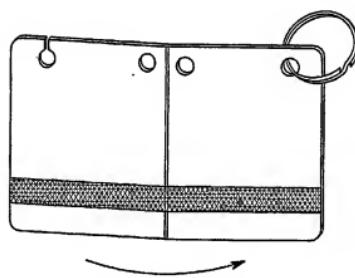
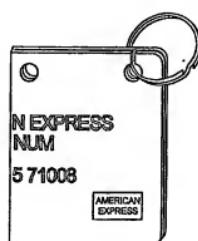


FIG. 1C



SUBSTITUTE SHEET (RULE 26)

FIG. 2A

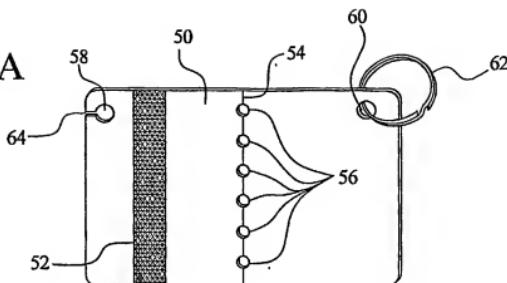


FIG. 2B

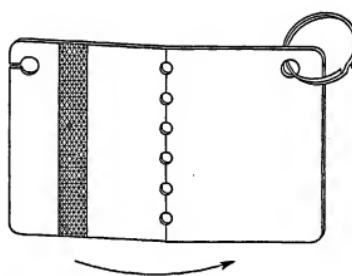
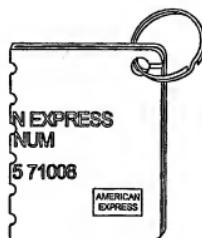


FIG. 2C



SUBSTITUTE SHEET (RULE 26)

FIG.3A

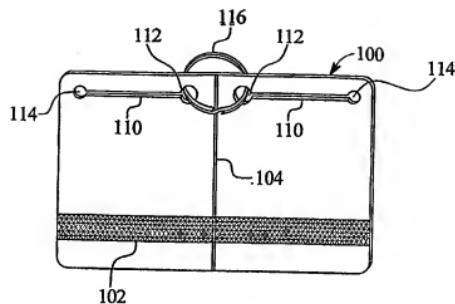


FIG.3B



FIG.3C



FIG.3D



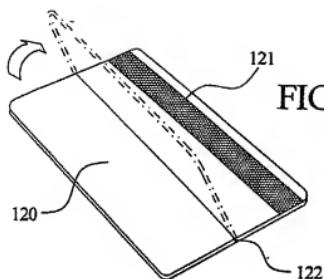
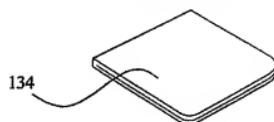
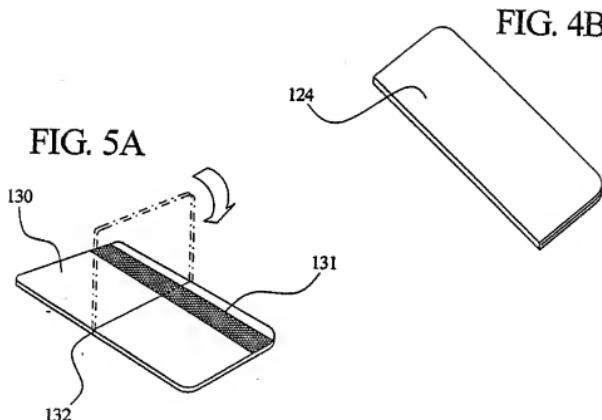


FIG. 4A



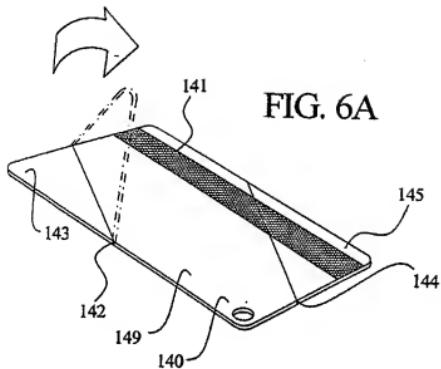


FIG. 6A



FIG. 6B

FIG. 6C

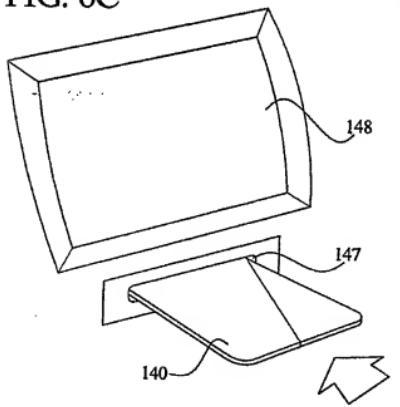


FIG. 7A

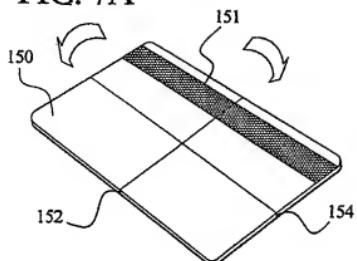


FIG. 7B

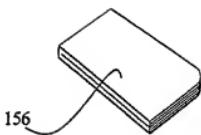


FIG. 8A

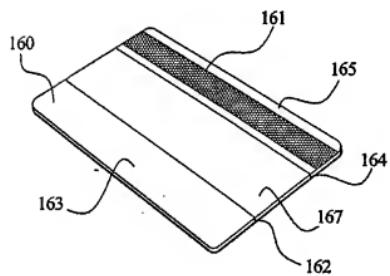
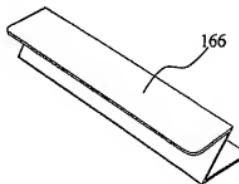


FIG. 8B



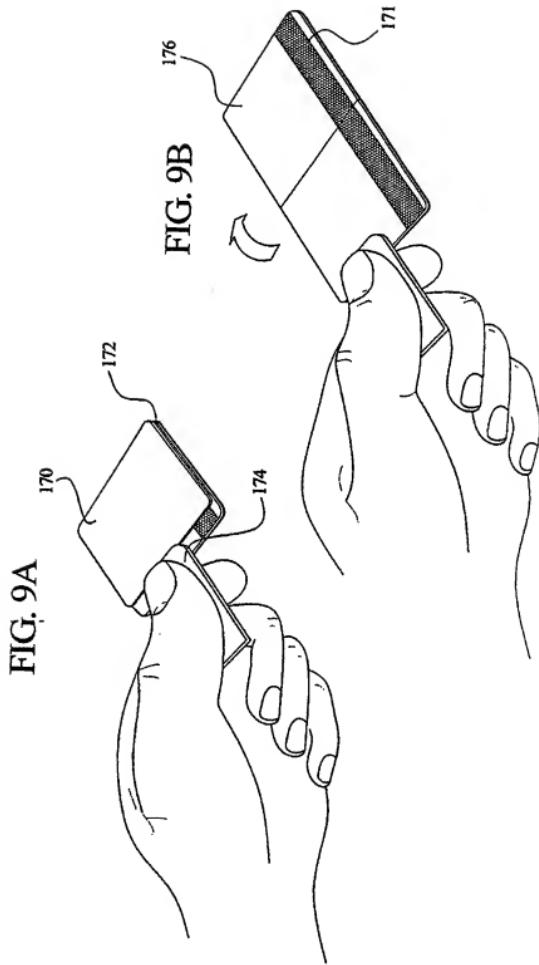


FIG. 10

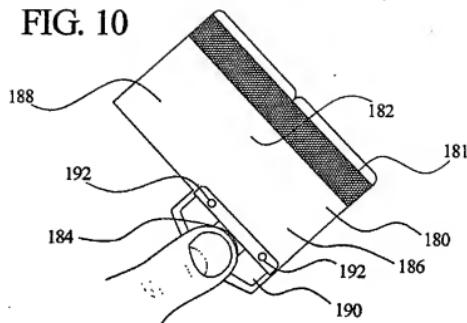


FIG. 11A

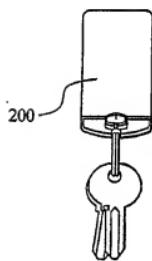


FIG. 11B

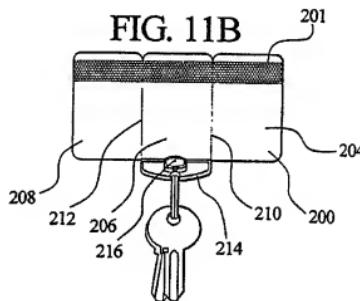


FIG. 12A

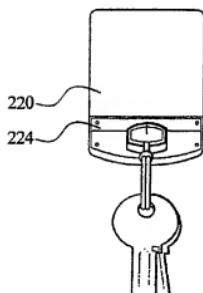


FIG. 12B

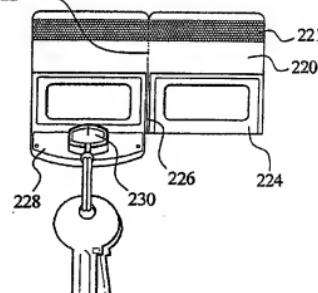


FIG. 13A

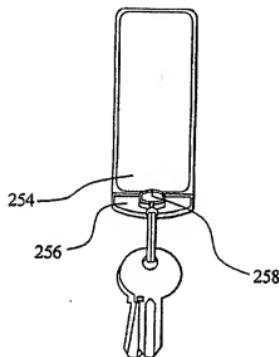


FIG. 13B

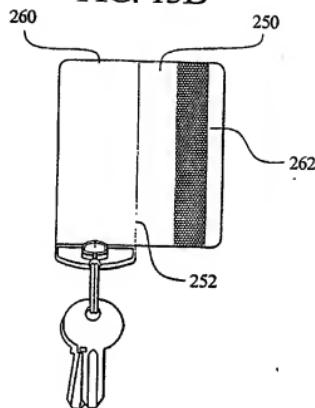


FIG. 14A

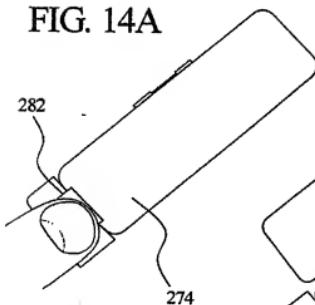
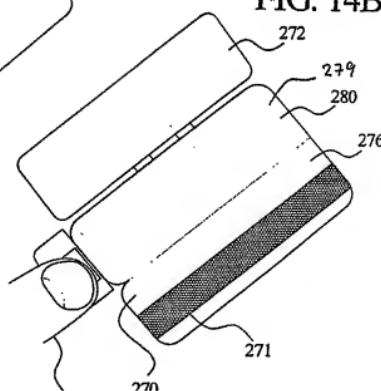


FIG. 14B



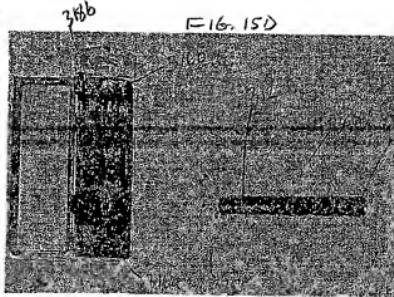
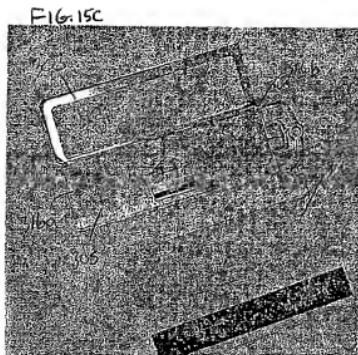
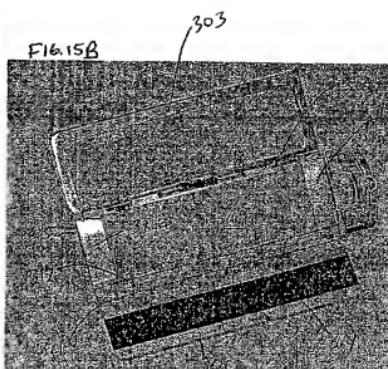
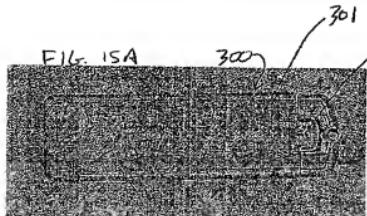


FIG. 16A

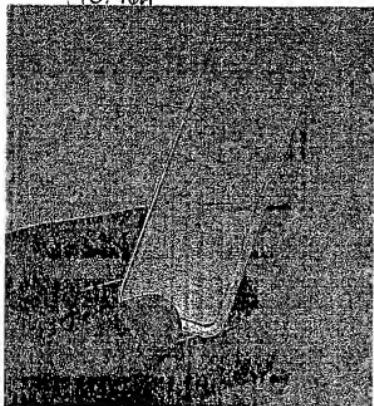
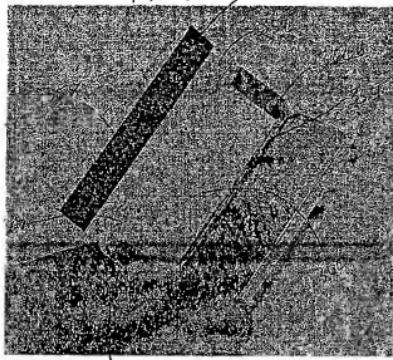
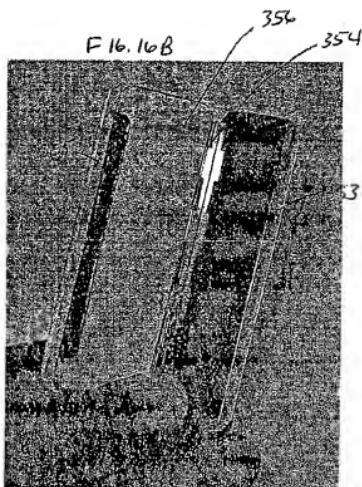


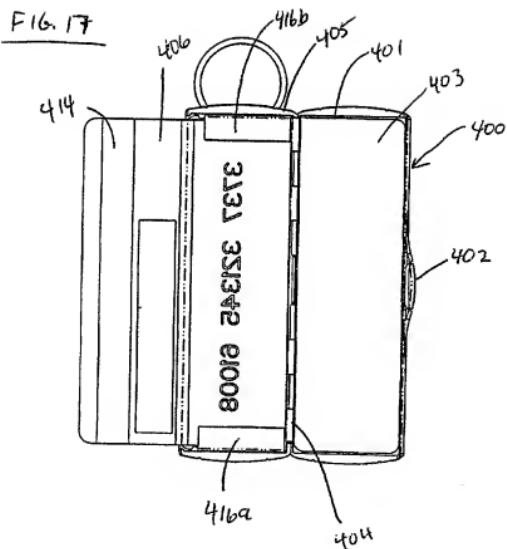
FIG. 16C



364a

F 16. 16B





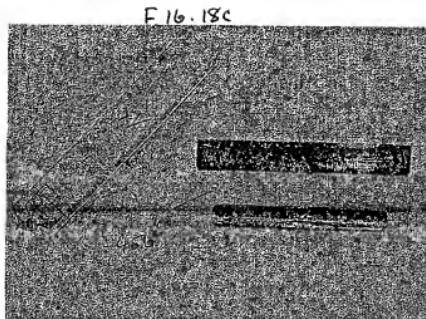
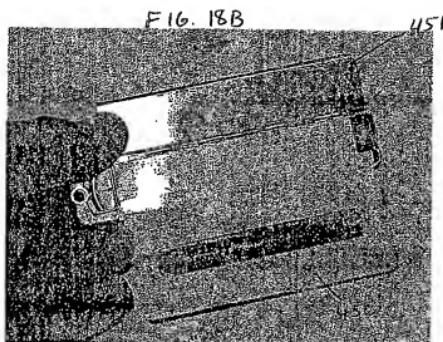


FIG. 19

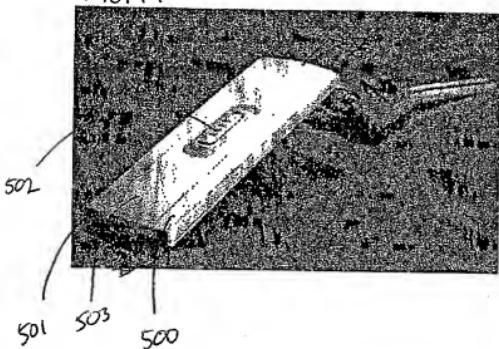


FIG. 20A.



F16.20B

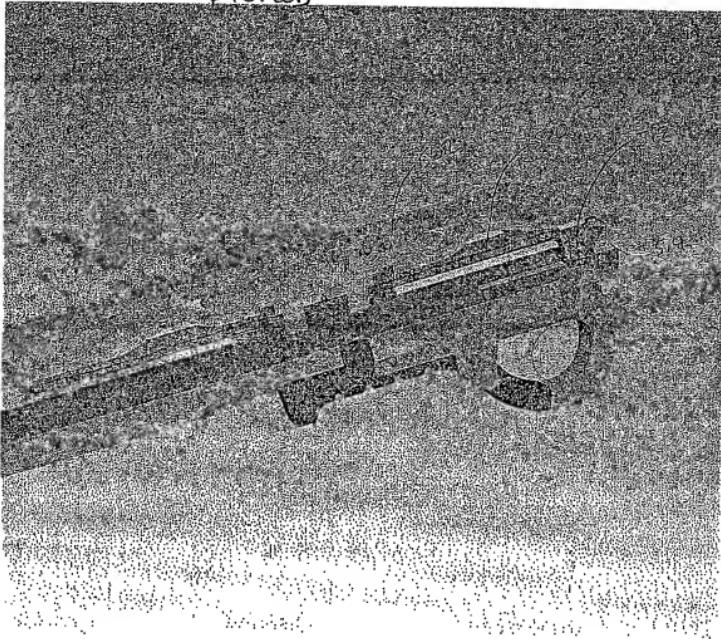


FIG. 21A

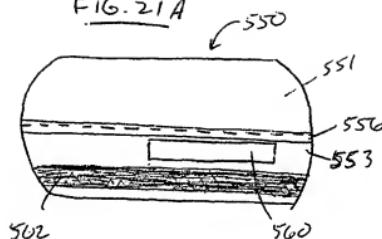


FIG. 21B

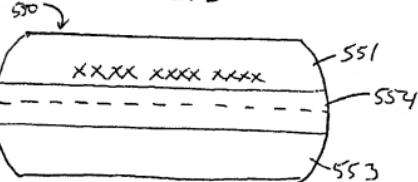
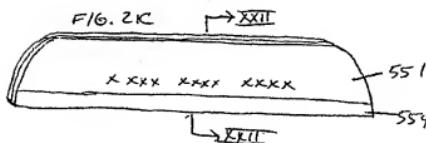


FIG. 21C



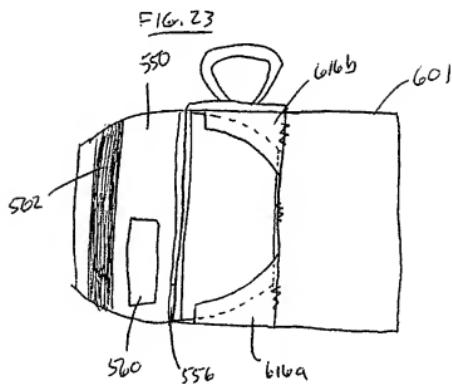
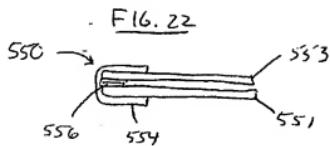


FIG. 24

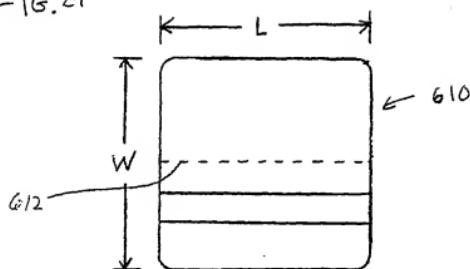


FIG. 25A

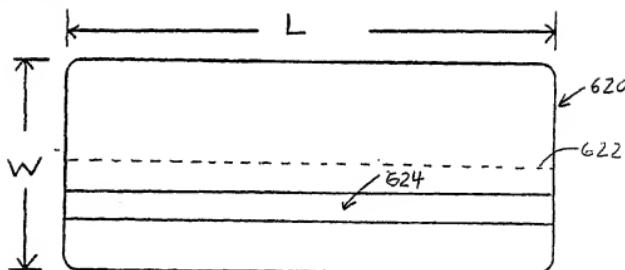


FIG. 25 B

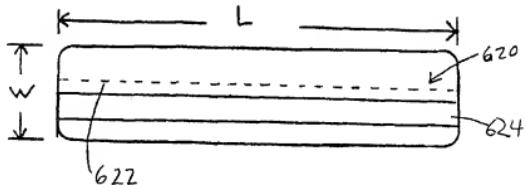


FIG. 26 A

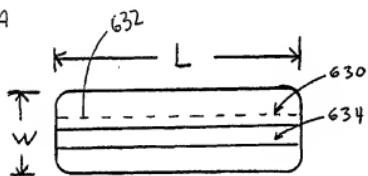


FIG. 26 B

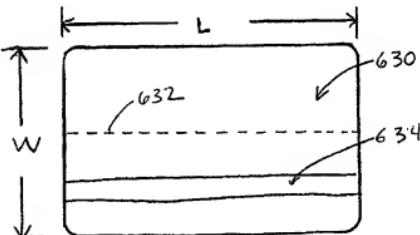


FIG. 27

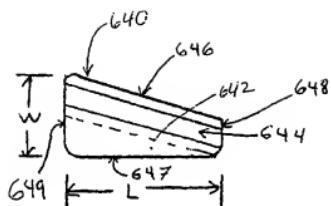
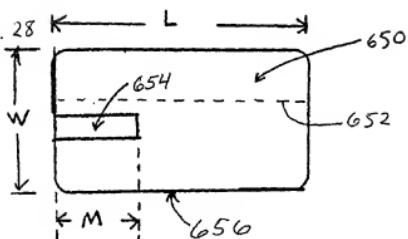


FIG. 28



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/052657 A3

(51) International Patent Classification⁷: G06K 19/04, (74) Agent: SCHERRER, Stephen, T.; McDermott, Will & Emery, 227 West Monroe Street, Chicago, IL 60606 (US).

(21) International Application Number: PCT/US2003/039367

(22) International Filing Date: 10 December 2003 (10.12.2003)

(25) Filing Language: English

(26) Publication Language: English

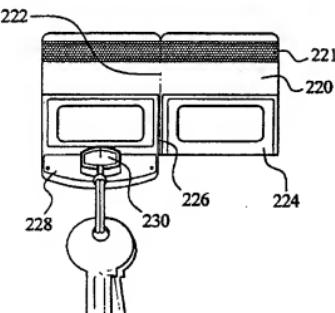
(30) Priority Data:
60/432,726 11 December 2002 (11.12.2002) US
60/442,991 28 January 2003 (28.01.2003) US
10/436,394 12 May 2003 (12.05.2003) US

(71) Applicant (for all designated States except US): AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC. [US/US]; American Express Tower, World Financial Center, New York, NY 10285-4900 (US).

(72) Inventors and

(75) Inventors/Applicants (for US only): LASCH, Ellen [US/US]; 255 West 85th Street, Penthouse #1, New York City, NY 10024 (US). WEBB, Llisa, Ann, Morrill [US/US]; 33 Knollwood Lane, Darien, CT 06820 (US). GANDEL, Priscilla [US/US]; 86 White Street, Long Branch NJ 07740 (US).

(54) Title: FOLDABLE TRANSACTION CARD SYSTEMS



(57) Abstract: Transaction card systems are provided comprising a foldable case or housing for holding and/or storing foldable transaction cards therein.

WO 2004/052657 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/39367A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06K19/04 G06K19/06 G06K19/02 A45C11/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06K A45C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5 503 434 A (GUNN ROBERT T) 2 April 1996 (1996-04-02) column 5, line 45 - column 8, line 65; figures 3-23,28,29,33	1,3-5,9, 10, 13-16, 18,20

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Date of the actual completion of the international search	Date of mailing of the International search report
14 June 2004	21/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentinst 2 NL-2200 RD Rijswijk Tel. (+31-70) 340-2340, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gysen, L

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